

ABSTRACT

A transceiver determines a modulation method to be used in a signal transmission based on an evaluated transmission channel condition and a difference between transmission powers of communicating transceivers. In this way, the transceiver can choose an optimal modulation method even in the communications between transceivers having different transmission powers. The transceiver comprises a transmission channel condition evaluator for evaluating a transmission channel condition based on a signal received from a counterpart transceiver; and a modulation method selector for determining a modulation method to be used in transmitting a signal to the counterpart transceiver based on the evaluated transmission channel condition and a difference between transmission power of the transceiver and that of the counterpart transceiver.